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TI HYDROGEN STORAGE ALLOY AND HYDROGEN STORAGE ALLOY ELECTRODE
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PA MATSUSHITA ELECTRIC IND CO LTD
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SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1997
AB PROBLEM TO BE SOLVED: To provide a hydrogen storage alloy electrode excellent in cycle characteristics and high-efficiency electric discharge characteristics by improving a hydrogen storage alloy of Ti-V-Ni type, having a body-centered cubic structure.
SOLUTION: This alloy is a hydrogen storage alloy which has a composition represented by the formula, Ti<SB>x</SB>V<SB>y</SB>M<SB>z</SB>Ni<SB>1-x-y-z</SB> (where M means at least one element selected from the group consisting of Al, Mn, and Zn and 0.2<=x<=0.4, 0.3<=y<0.7, 0.1<=z<=0.3, and 0.6<=x+y+z<=0.95 are satisfied) and in which the essential component of alloy phase has a body-centered cubic structure. Further, this hydrogen storage alloy contains at least one element selected from the group consisting of Cr, Mo, W, Co, Fe, Cu, Ag, Zr, Hf, Si, B, P, S, and rare earth elements by <=5atom% per element based on the total content.